- 1. A method of diagnosing metastatic disease in a human comprising:
 - a) removing a sample of cells from the human;
 - b) assaying the sample for VEGF transcriptional activity; and
 - c) determining the existence of metastatic disease characterized by the induction of VEGF transcriptional activity.
- 2. The method of claim 1 wherein the cells are tumor cells.
- 3. The method of claim 2 wherein the tumor cells are obtained through a surgical debulking of the tumor.
- 4. The method of claim 1 wherein the transcriptional activity is measured by hybridization of RNA from the cells to a labeled complementary nucleic acid.
- 5. The method of dlaim 1 wherein the transcriptional activity is measured by polymerase chain reaction.
- 6. The method of claim 1 further comprising assaying the sample for the presence of VEGF protein.
- 7. The method of claim 1 further comprising assaying the sample for the expression of tyrosine kinase receptors involved in angiogenesis.
- 8. The method of claim λ wherein the tyrosine kinase receptor is chosen from the group consisting of the KDR/flk-1 receptor, the flt-1 receptor, and/or the tek/tie-2 receptor.

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- 9. The method of claim 1 further comprising assaying the sample for the expression of hypoxia induced factor 1.
- 10. The method of claim 1 further comprising assaying for the abnormal expression of an oncogene.
- 11. A method of diagnosing metastatic disease in a human consisting of:
 - a) removing a sample of tissue or fluid from the human;
 - b) assaying for the presence of VEGF protein in the sample; and
 - c) determining the existence of metastatic disease by the presence of VEGF protein, wherein the abnormal presence of VEGF protein indicates the presence of metastatic disease.
- 12. The method of claim 11 wherein the sample is obtained through a surgical debulking of the tumor.
 - 13. The method of claim 11 wherein the fluid is blood.
- 14. The method of claim 11 wherein the presence of VEGF is determined using an anti-VEGF antibody.
- 15. The method of claim 14 wherein the anti-VEGF antibody is used in an ELISA assay.
- 16. The method of claim 11 further comprising assaying the sample for the expression of tyrosine kinase receptors involved in angiogenesis.
- 17. The method of claim 16 wherein the tyrosine kinase receptors are chosen from the group consisting of the KDR/flk-1 receptor, the flt-1 receptor, and/or the tek/tie-2 receptor.

- 18. The method of claim 11 further comprising assaying the sample for the expression of hypoxia induced factor.
- 19. The method of claim 11 further comprising assaying for the expression of an oncogene.

20. A method of diagnosing metastasis in a human comprising:

- a) detectably labeling a ligand which specifically recognizes VEGF;
- b) administering the labeled ligand to the human; and
- c) detecting the localization of the labeled antibody or fusion protein in the human, wherein the abnormal localization of VECF is indicative of a metastatic disease.

Cody (A)